

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).
2. (Canceled).
3. (Canceled).
4. (Canceled).
5. (Canceled).
6. (Canceled).
7. (Canceled).
8. (Currently amended) An anhydrous treatment composition according to Claim [[7]] 33, wherein the reactive agent further comprises a ~~wherein the~~ protecting group that is selected from the group consisting of heterocyclic protecting groups, sp^2 aliphatic trigonal carbon protecting groups, sp^3 carbon electrophilic protecting groups, phosphorus protecting groups, metal based protecting groups, non-metal and metalloid based protecting groups other than phosphorus, energy-sensitive protecting groups and mixtures thereof.
9. (Currently amended) An anhydrous treatment composition according to Claim [[1]] 33, wherein the water-miscible solvent has a Vaughan Solubility Parameter of from about $8.0 \text{ (cal/cm}^3)^{0.5}$ to about $17.0 \text{ (cal/cm}^3)^{0.5}$.

Page 2 of 13

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752

10. (Currently amended) An anhydrous treatment composition according to Claim [[1]] 33, wherein the water-miscible solvent is selected from the group consisting of ethyl formate, dimethyl isosorbide, acetylacetone, 2-butanone, acetone, methyl acetate, ethyl acetate, propyl acetate, ethoxyethanol, dipropylene glycol monomethyl ether, butyl lactate, t-butyl alcohol, phenyl acetate, 2-propoxyethanol, 2-isopropoxyethanol, methoxypropanol, isopropyl lactate, hexyl alcohol, butoxyethanol, tripropylene glycol (PPG-3), triacetin, methoxyethanol, isopropyl alcohol, PEG-8, methyl lactate, PEG-6, PEG-5, PEG-4, N-methylpyrrolidone, propyl alcohol, dipropylene glycol (PPG-2), acetonitrile, phenoxyethanol, triethylene glycol, hexylene glycol, ethyl alcohol, γ -butyrolactone, butylene glycol, propylene carbonate, dimethyl sulfoxide, diethylene glycol, ethoxydiglycol, propylene glycol, pyrrolidone, pyrrolidone-2, methyl alcohol, ethylene carbonate, ethylene glycol, acetamide, glycerin, butyl carbitol, 1,3-dioxolane, dimethoxymethane, 1,2-hexanediol, dipropylene glycol butyl ether, dipropylene glycol t-butyl ether, propionaldehyde, diethoxymethane, glycerol formal, γ -valerolactone, β -methyl- γ -butyrolactone, and butyl acetate, ethanol, isopropyl alcohol, and mixtures thereof.
11. (Previously presented) An anhydrous treatment according to Claim 10, wherein the water-miscible solvent is selected from the group consisting of N-methylpyrrolidinone, propylene carbonate, γ -butyrolactone, γ -valerolactone, propylene glycol, dipropylene glycol, ethoxydiglycol, ethoxyethanol, dimethoxymethane, dimethyl isosorbide, butyl lactate, and mixtures thereof.

NOTE: The as-filed claims included an inadvertent numbering typographical error. The original claims included two (2) claims referenced as "Claim 10." The second recited claim 10 was amended to read as "Claim 11" (see Response submitted on October 21, 2004).

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752

Since the remaining U.S. claims were withdrawn as a result of an earlier Restriction Requirement, their numbering scheme was not amended.

11. (Withdrawn) A composition comprising
 - a) greater than about 25% water-miscible solvent,
 - b) from about 0.5% to about 25% surfactant, and
 - c) waterwherein the composition is thickened by high solvent containing lamellar liquid crystals.
12. (Withdrawn) A composition according to Claim 11 wherein the surfactant has a Critical Packing Factor greater than about 0.5 and less than or equal to about 10.
13. (Withdrawn) A composition according to Claim 12 wherein the surfactant is selected from the group consisting of fatty alcohols having a chain length of from about 14 to about 22; fatty acids having a chain length of from about 14 to about 22; condensation products of C16 to C22 aliphatic alcohols with alkylene oxides; mono- and di-alkyl alkanolamides with carbon chain lengths of from about 12 to about 22; long chain esters of polyols and sugars; polyethoxylated and/or polypropoxylated alkylphenols; polyhydroxylated polyethers of fatty alcohols, fatty acid alkanolamides, and amine oxides; condensation products of ethylene oxide with long chain amids; quaternary ammonium halides in which the alkyl group has from about 12 to about 22 carbon groups; alkyl sulfonates, alkyl ether sulfonates, alkylaryl sulfonates, alkanoyl isethionates, alkyl succinates, alkyl sulfosuccinates, N-alkoyl sarcosinates, alkyl phosphates, alkyl ether phosphates, alkyl ether carboxylates, and alpha-olefin sulfonates; sodium, magnesium, ammonium and mono-, di- and triethanolamine salts of alkyl sulfonates, alkyl ether sulfonates, alkylaryl sulfonates, alkanoyl isethionates, alkyl succinates, alkyl sulfosuccinates, N-alkoyl sarcosinates, alkyl phosphates, alkyl ether phosphates, alkyl ether

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752

carboxylates, and alpha-olefin sulfonates, gemini surfactants; lipid surfactants; and mixtures thereof.

14. (Withdrawn) A composition according to Claim 13 wherein the surfactant is selected from the group consisting of cetyltrimethylammonium chloride, cetyltrimethylammonium bromide, cetearyl phosphate, phosphatidyl choline, serine, choline, ethanolamine, palmitic acid, myristic acid, oleic acid, stearic acid, arachidonic acid, linolenic acid, linoleic acid and arachidic acid, cetearyl alcohol, cetyl alcohol, stearyl alcohol, arachidyl alcohol, oleyl alcohol, cetareth ethoxylates with between 10 and ethylene oxide groups, ceteth ethoxylates with between 10 and 30 ethylene oxide groups, steareth ethoxylates with between 1- and 30 ethylates, and mixtures thereof.
15. (Withdrawn) A system for treating amino-acid based substrates comprising the anhydrous treatment composition of Claim 1 and a separately packaged aqueous composition.
16. (Withdrawn) A system according to Claim 15 wherein the aqueous composition further comprises a surfactant.
17. (Withdrawn) A system according to Claim 15 wherein the anhydrous composition further comprises a surfactant.
18. (Withdrawn) A system according to Claim 17 wherein the surfactant has a Critical Packing Factor greater than about 0.5 and less than or equal to about 10.
19. (Withdrawn) A system according to Claim 18 wherein the surfactant is selected from the group consisting of fatty alcohols having a chain length of from about 14 to about 22; fatty acids having a chain length of from about 14 to about 22; condensation products of C16 to C22 aliphatic alcohols with alkylene oxides; mono-

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752

and di-alkyl alkanolamides with carbon chain lengths of from about 12 to about 22; long chain esters of polyols and sugars; polyethoxylated and/or polypropoxylated alkylphenols; polyhydroxylated polyethers of fatty alcohols, fatty acid alkanolamides, and amine oxides; condensation products of ethylene oxide with long chain amids; quaternary ammonium halides in which the alkyl group has from about 12 to about 22 carbon groups; alkyl sulfonates, alkyl ether sulfonates, alkylaryl sulfonates, alkanoyl isethionates, alkyl succinates, alkyl sulfosuccinates, N-alkoyl sarcosinates, alkyl phosphates, alkyl ether phosphates, alkyl ether carboxylates, and alpha-olefin sulfonates; sodium, magnesium, ammonium and mono-, di- and triethanolamine salts of alkyl sulfonates, alkyl ether sulfonates, alkylaryl sulfonates, alkanoyl isethionates, alkyl succinates, alkyl sulfosuccinates, N-alkoyl sarcosinates, alkyl phosphates, alkyl ether phosphates, alkyl ether carboxylates, and alpha-olefin sulfonates, gemini surfactants; lipid surfactants; and mixtures thereof.

20. (Withdrawn) An article comprising:
 - a) a package having a first chamber and a second chamber, each chamber having a dispensing orifice,
 - b) an anhydrous treatment composition contained in the first chamber, and
 - c) an aqueous composition contained in the second chamber.
21. (Withdrawn) A method for treating amino-acid based substrates comprising dampening of the amino-acid based substrate with water and applying a safe and effective amount of the treatment composition of Claim 1 to the substrate.
22. (Withdrawn) A method for treating hair comprising dampening of the hair with water and applying a safe and effective amount of the treatment composition of Claim 1 to the substrate.

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752

23. (Withdrawn) A method for treating amino-acid based substrates comprising the mixing of the anhydrous treatment composition of Claim 1 with water and applying a safe and effective amount of the composition-water mixture to the substrate.
24. (Withdrawn) A method for treating hair comprising the mixing of the anhydrous treatment composition of Claim 1 with water and applying a safe and effective amount of the composition-water mixture to the hair.
25. (Withdrawn) A method for treating amino-acid based substrates comprising the mixing of the anhydrous treatment composition of Claim 1 with water and applying a safe and effective amount of the composition-water mixture to the substrate.
26. (Withdrawn) A method for treating hair comprising the mixing of the anhydrous treatment composition of Claim 1 with water and applying a safe and effective amount of the composition-water mixture to the hair.
27. (Withdrawn) A method for treating amino-acid based substrates comprising the simultaneous dispensing the anhydrous treatment composition and aqueous composition of the system of Claim 15, mixing the compositions, and applying the resulting mixture to hair
28. (Withdrawn) A method for treating hair comprising the simultaneous dispensing the anhydrous treatment composition and aqueous composition of the system of Claim 15, mixing the compositions, and applying the resulting mixture to hair
29. (Withdrawn) A method of thickening compositions containing greater than 25% water-miscible solvent comprising adding water and adding a solvent to form high solvent containing lamellar liquid crystals.
31. (Canceled).

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752

32. (Canceled).

33. (New) An anhydrous treatment composition, comprising:

a) a reactive agent comprising:

i) a reactive group selected from the group consisting of halotriazines, haloquinoxalines, halopyrimidines, vinylsulfones, β -haloethylsulfones, β -sulfatoethylsulfones, acrylates, methacrylates, acrylamides, methacrylamides, maleimides, epoxides, acylhalides, esters, carbamates, dithiocarboxylic acid esters, alkoxy silanes, thiosulfates, anhydrides, urea derivatives, isothiocyanates, isocyanates, lactones, thiosulfates, isothiuroniums, azalactones, thiols, thiolates, thiols or thiolates containing quaternary salts, thioalkyl esters, thioalkylamides, thiol or thiolate derivatives of cysteamine, and mixtures thereof;

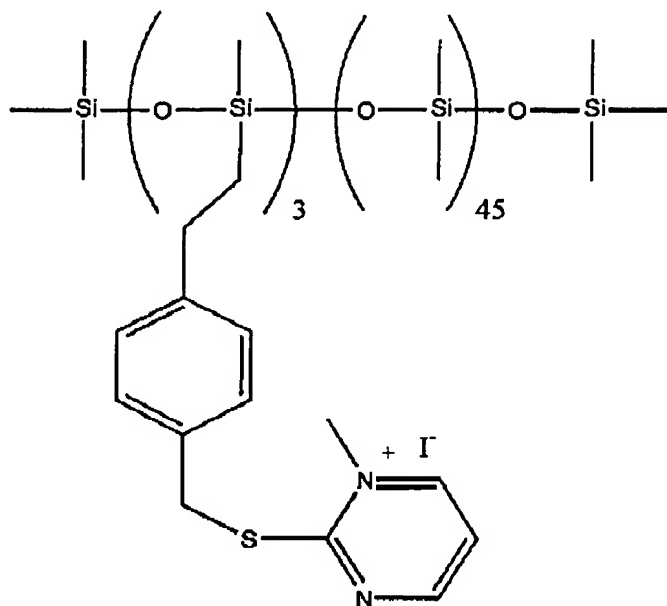
ii) a cosmetically active functional group selected from the group consisting of a silicone hair conditioning cosmetic functional group, a hydrocarbon conditioning cosmetic functional group, and mixtures thereof; and

b) a water miscible solvent,

wherein the anhydrous treatment composition is only one part of a final two-part composition that also includes an aqueous composition to be mixed with the anhydrous treatment composition prior to application to an amino-acid substrate.

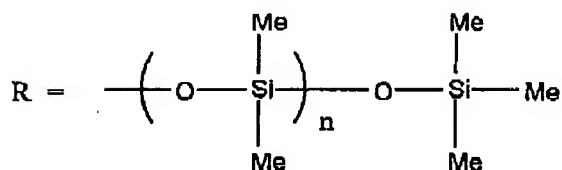
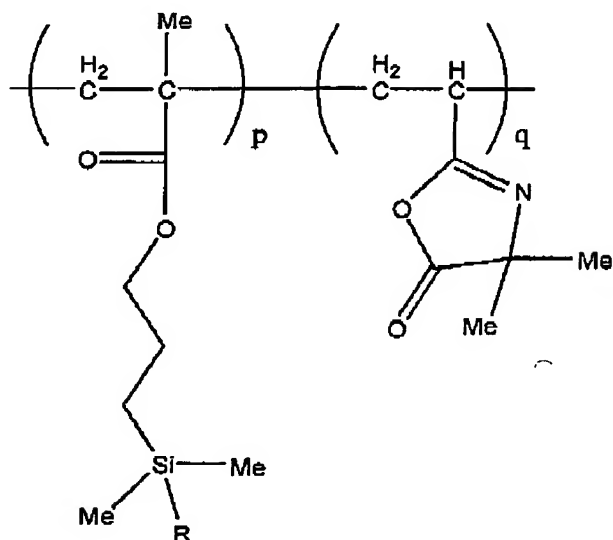
34. (New) An anhydrous treatment composition according to Claim 33, wherein the reactive agent is in accordance with the following structure:

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752



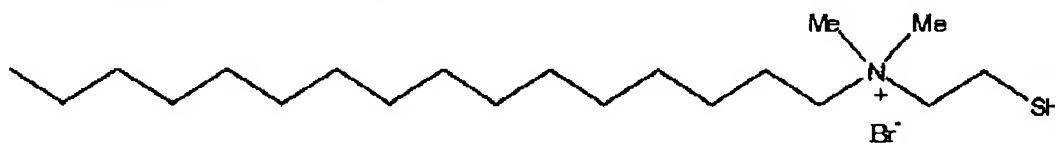
35. (New) An anhydrous treatment composition according to Claim 33, wherein the reactive agent is in accordance with the following structure:

Appl. No. 10/051,401
 Atty. Docket No. 8401
 Amdt. Dated May 22, 2006
 Reply to Office Action of March 7, 2006
 Customer No. 27752



wherein $p = 1$, $q = 14.6$ and $n = 60$.

36. (New) An anhydrous treatment composition according to Claim 33, wherein the reactive agent is in accordance with the following structure:



37. (New) An anhydrous treatment composition according to Claim 33, wherein the anhydrous treatment composition is present in a final two-part composition in an amount from about 0.01% to about 10% by weight of the final two-part composition.

Appl. No. 10/051,401
Atty. Docket No. 8401
Amdt. Dated May 22, 2006
Reply to Office Action of March 7, 2006
Customer No. 27752

38. (New) An anhydrous treatment composition according to Claim 33, wherein the anhydrous treatment composition is present in a final two-part composition in an amount from about 0.5% to about 5% by weight of the final two-part composition.

39. (New) An anhydrous treatment composition according to Claim 33, wherein the anhydrous treatment composition is present in a final two-part composition in an amount from about 0.25% to about 2% by weight of the final two-part composition.

40. (New) An anhydrous treatment composition according to Claim 33, wherein the water miscible solvent is present in a final two-part composition in an amount from about 25% to about 95% by weight of the final two-part composition.

41. (New) An anhydrous treatment composition according to Claim 33, wherein the water miscible solvent is present in a final two-part composition in an amount from about 30% to about 90% by weight of the final two-part composition.

42. (New) An anhydrous treatment composition according to Claim 33, wherein the water miscible solvent is present in a final two-part composition in an amount from about 50% to about 85% by weight of the final two-part composition.